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ABSTRACT

MONIFORMS are partially completed coding formats in the TUTOR language used to create frequently used question types such as multiple choice, matching, and constructed response questions. The author adds information related to specific questions and responses, using one of several options available for tailoring a question to meet specific requirements. Practice questions for teaching rather than testing provide the students with immediate feedback in either general form or response-specific form. There are six steps in preparing MONIFORMS: selection, documentation, unit setups, revision of setups, revision of MONIFORMS, and the trial run. Many sample MONIFORMS, completed MONIFORMS, and uncompleted MONIFORMS are included as examples. This programed text provides instructions in completion of MONIFORM coding and debugging. (CH)

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LESSON MONIFORM

An Authoring Aid for the PLATO IV CAI System

by

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April 1975

Work Unit: CATALIST

Prepared for

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FOREWORD

This text is a programmed guide for the use of HumRRO-developed authoring aids for the PLATO IV Computer-Administered Instruction (CAI) system. These authoring aids, which we call Monitoring Formats (MONIFORMS), may be used by any individual who is preparing instructional material for the PLATO IV system.

MONIFORMS represent partially completed code in the TUTOR programming language and are used to create certain frequently used question types, such as multiple choice, constructed response, and matching questions. MONIFORMS require the author to provide only information relevant to his specific question, such as the text for the question, feedback messages for correct and incorrect responses, and instructions for analyzing the student's response.

A user of MONIFORMS need not be skilled in the TUTOR programming language. He need know only basic editing procedures for the PLATO system. In addition, question preparation time is greatly reduced; any question prepared with MONIFORMS can be completed within 10-15 minutes.

This text contains only guidance for question preparation using MONIFORMS. Individuals interested in the rationale and development process of MONIFORMS are referred to a companion document (HumRRO report in preparation), "MONIFORMS as Authoring Aids for the PLATO IV CAI System." The material in this guide is also available in CAI form on the PLATO IV system in Lesson "moniform."

Appreciation is expressed for the assistance provided by HumRRO researchers Dr. Harold Wagner, Nancy Hibbits, Patricia Hasty, and SP/4 John Volk (discharged). Appreciation is also extended to individuals at the University of Illinois Computer-Based Educational Research Laboratory, and especially to H.A. Himwich of that organization who has provided invaluable assistance in the development of individual MONIFORMS.

The work was performed at HumRRO Eastern Division, Alexandria, Virginia, under Work Unit CATALIST. Dr. J. Daniel Lyons is Director of the Division and Dr. Robert J. Seidel is Program Director, Instructional Technology Group.

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LESSON MONIFORM

The material in this lesson is part of research conducted by the Instructional Technology Group of the Human Resources Research Organization (HumRRO) under contract with the U.S. Army Research Institute for the Behavioral and Social Sciences.

The purpose of this research is to develop authoring aids that will be useful to all PLATO IV users. Such authoring aids are referred to as MONIFORMS.

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Lesson MONIFORM has been designed to give you considerable freedom in branching through the several segments of the lesson. That is, you need access only those parts of the lesson that you wish.

THE MAIN INDEX IS THE LAST PAGE OF THIS DOCUMENT.

For your convenience the Main Index can be folded out from the report in a manner that permits you to see it at all times and refer to it as you work with the lessons.

A

Introduction to MONIFORMS

INTRODUCTION TO MONIFORMS

This introduction to MONIFORMS is prerequisite to an understanding of the use of MONIFORMS and the remainder of the lesson. It should take you 10-15 minutes to complete.

You will be told what MONIFORMS are (and what they are not) and will be shown one sample question and the MONIFORM used for preparing that question.

Lesson "moniform" is a series of lessons designed to permit you to rapidly find specific information concerning HumRRO MONIFORMS. Use it somewhat like you would use Lesson AIDS.

You are not expected to take the time now to go through the entire series of lessons. However, you should complete the Introduction and then spend a few minutes browsing through the Main Index to become familiar with the general structure of the lessons and the types of information available to you.

The term MONIFORM is an acronym for MONItoring FORMats.

In general, MONIFORMS are partially completed coding formats. You, the author, add information related to your question and specifications for response analysis.

MONIFORMS will permit you to rapidly and easily create certain types of practice problems.

After you become familiar with using MONIFORMS, you will be able to code your questions in 10 minutes or less.

Practice questions are defined as those types of questions which are intended to TEACH as opposed to testing types of questions which primarily try to EVALUATE a student's present knowledge.

Practice questions prepared with MONIFORMS permit the author to provide the student immediate feedback depending upon the student's response. That is, the author may provide a congratulatory message for a correct response, or provide messages to lead the student toward the correct answer.

MONIFORMS are used to create single questions. This therefore means that the author may intermingle questions prepared with MONIFORMS with those prepared by other means, such as coding from scratch. As a consequence, use of MONIFORMS in no way dictates the overall structure of the author's lesson.

MONIFORMS require the user to understand only basic editing commands. They are especially useful for individuals who have limited TUTOR programming skills.

They are also useful to the more experienced TUTOR programmer because they greatly reduce the amount of time required for preparing certain frequently used types of questions and associated response analyses. Since MONIFORMS make use of HumRRO programs which need not be copied into your lesson, they are economical in terms of lesson space.

Let's now look at a matching type question that was prepared using a MONIFORM.

By using the MONIFORM, this question was prepared in less than 7 minutes. You can judge for yourself how long it would take to code it from scratch.

To fully appreciate how this question is executed, you will need to sign into Lesson MONIFORM. If you were signed into the lesson, the question would appear as it is reproduced on the following page. Also on-line, you would be able to move the arrow up and down with the NEXT and BACK keys. This feature allows you to temporarily skip specific parts of the question, and then to return to them later.

Match the number of players for each of the sports listed below:

1.	basketball	a.	eleven
2.	football	b.	nine
3.	hockey	c.	five
4.	baseball	d.	six

You may move the arrow backwards to correct an error by pressing the BACK key.

Turn to page A-14

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

Match the number of players for each of the sports listed below:

c	1.	basketball	a.	eleven
a	2.	football	b.	nine
b	3.	hockey	c.	five
d	4.	baseball	d.	six

You may move the arrow backwards to correct an error by pressing the BACK key.

Turn to page A-14 for display that would be seen if the above answers were given and the student then pressed the NEXT key.

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

Match the number of players for each of the sports listed below:

c	1.	basketball	a.	eleven
a	2.	football	b.	nine
b	3.	hockey	c.	five
d	4.	baseball	d.	six

Check your answers carefully. If you wish to change any of them, press DATA. Otherwise press NEXT.

Turn to page A-16 if student pressed the NEXT key at this point.

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

Match the number of players for each of the sports listed below:

	c	1.	basketball	a.	eleven
	a	2.	football	b.	nine
no	b	3.	hock[illegible]	c.	five
no	d	4.	baseball	d.	six

You got 2 correct this time. Try to correct your errors. Press the NEXT key to move the arrow.

Student would now attempt to correct errors.

Turn to page A-17 for display he would see if all questions were answered correctly.

Turn to page A-19 for display he would see if attempt limit is reached and he still has 1 or more incorrect answers.

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

Match the number of players for each of the sports listed below:

c	1.	basketball	a.	eleven
a	2.	football	b.	nine
d	3.	hockey	c.	five
b	4.	baseball	d.	six

You're batting a 1000

Turn to page A-18.

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

This represents the unit the student would be branched to if he answered the entire question correctly.

Turn to page A-21.

Match the number of players for each of the sports listed below:

		a	1.	basketball	a.	eleven
		b	2.	football	b.	nine
d	no	c	3.	hockey	c.	five
b	no	d	4.	baseball	d.	six

The correct answers for the matches you missed are shown on the left. Study them carefully.

Turn to page A-20.

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question.

This represents the remediation unit that the student would be branched to if the correct answers were given to him.

Turn to page A-21.

Keep in mind that if you were preparing a question with this MONIFORM you would have several options available to you to "tailor" the question to your particular requirements. For example:

1. You could have a maximum of 1Ø matching items.

2. You could have single, double, or triple spacing between matching items.

3. You specify the number of attempts student is permitted.

4. You write the "correct answer feedback."

5. You specify the type of assistance the student receives when attempt limit is reached and he is still incorrect. You could have: (1) answer given (as in the sample), (2) the instructor called and the keyboard locked, or (3) no assistance given.

As you can see from the above options, you have considerable freedom in designing your question.

Now, let's look at the completed MONIFORM that produced this question. I think you will be pleasantly surprised with the small amount of code required.

COMPLETED MONIFORM

```
unit    sample
zero    n(offset),13
at      708
write   Match the number of players for each of the sports
        listed below:

            1.  basketball      a.  eleven
            2.  football        b.  nine
            3.  hockey          c.  five
            4.  baseball        d.  six
pack    temp2,n(offset+1),cadb
pack    temp2,caf1,You're batting 1000!
calc    arrow1 ⇦ 1008
        noalt ⇦ 4
        notries ⇦ 3
        space ⇦ 1
        assist ⇦ answer
join    drive30
next    totcor=noalt,intro12,intro12a,
```

This is all of the code that would be in your lesson (except for Unit "setup" which is copied one time only). All code necessary for question execution resides in HumRRO lesson space. (Later, see Unit "setup".)

Finally, let's look at the uncompleted MONIFORM used for creating the sample. This is the format that you would copy into your lesson and modify to prepare your specific question.

UNCOMPLETED MONIFORM

```
unit    form9                $$ r form9 with your unit name
zero    n(offset),13         $$ copy as is

*Go to "ID" mode to insert your question. Note the following:
*1.  You are limited to 10 matching items.
*2.  Answers must be letters (i.e., a, b, c, d, etc.).
*3.  Note the screen position of where you want the first
*    arrow to appear.
*4.  The -pack- command below requires the "correct answer
*    string" to be added (e.g., temp2,n(offset+1),dafebc).

pack    temp2,n(offset+1),   $$ add correct answ string
pack    temp2,caf1,          $$ add correct answer feedback
calc    arrow1⇦              $$ add position for first arrow
        noalt⇦               $$ add # of matching items used
        notries⇦             $$ add # attempts student permitted
        space⇦               $$ add # lines between match items
        assist⇦              $$ add:instr-instr assistance
                             $$ add:answer-correct answ given
                             $$ add:none-no assistance given
join    drive30              $$ copy as is
next    totcor=noalt,nextu,otheru,   $$r nextu with next unit
                                     $$ otheru with remediation
                                     $$ unit
*Your question is ready.  Switch to student mode to try it.
```

Instructions for completing the MONIFORM follow the $$. "r" means replace.

This completes the "Introduction to MONIFORMS".

When you return to the Main Index, it is suggested that you take a few minutes to browse through the remainder of the options listed.

The suggested order of browsing follows:

(1) Sample Questions
(2) MONIFORM Characteristics
(3) Unit "setup"
(4) How to Use MONIFORMS
(5) For remaining sections—any order

B

Sample Questions

SAMPLE MONIFORM QUESTIONS

In preparing sample questions it is not possible to give illustrations of all the options available to the author. Therefore, as you examine these sample questions keep in mind that if you were using the MONIFORM you would be able to tailor the question to your liking.

Specific characteristics of each sample question appear at the top of the page. The box on the bottom half of the page shows feedback messages that the student would receive depending on his response, or the particular attempt at the question.

Use the following definitions in examining the Index below:

random	= answer alternatives presented in random order
non-random	= answer alternatives presented in order specified by author
general	= general wrong answer feedbacks (not response specific)
specific	= response specific wrong answer feedbacks

INDEX OF MONIFORM SAMPLE QUESTIONS

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Constructed Response

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Matching

B-10	Student moves pointer
B-11	Student types answer

MONIFORM1 SAMPLE QUESTION–MULTIPLE CHOICE

Specifications

–Answer alternatives presented in random order
–4 general (not response specific) try again feedbacks
–No long 1 feature (Student must press NEXT to judge)
–Student permitted 5 incorrect attempts
–Instructor called after 5th incorrect attempt
–If keyboard LOCKS, type: unlock
–Unanticipated response feedback
–Correct answer: donkey

In the Winnie the Pooh series what kind of animal is Eeyore?
Select an animal from the choices below.

1. **rabbit**
2. **bear**
3. **owl**
4. **donkey**
5. **kangaroo**

>

Feedbacks

Feedback given student for correct answer

You're no ass!

Feedbacks given student for each incorrect try.

Try 1–No. Hint1: Eeyore has four legs.
Try 2–No. Hint2: Eeyore kicks up a hit.
Try 3–No. Hint3: Eeyore has a funny voice.
Try 4–No Hint4: Eeyore is gray.
Try 5–No Hint4: Eeyore is gray.
Try 6–Please call your instructor.

MONIFORM2 SAMPLE QUESTION–MULTIPLE CHOICE

Specifications

–Author has written only 4 answer alternatives (maximum is 6)
–Answer alternatives presented in order specified by author
–Student permitted 3 attempts at question (author's option)
–After 3rd incorrect attempt the student is given the correct answer and branched to a remediation unit (This is 1 of 3 possible options available)
–long 1 feature
–correct answer: John L. Lewis

Of the people listed below, which <u>one</u> was a famous labor union leader?

1. **Jim Brown**
2. **Bobby Riggs**
3. **Jules Verne**
4. **John L. Lewis**

Feedbacks

Feedback given student for correct answer

True! A real giant of a man.

Feedbacks given student for each incorrect try.

Try 1–No. Who has bushy eyebrows?
Try 2–No. Which one was once a miner?
Try 3–The correct answer is: John L. Lewis.

MONIFORM3 SAMPLE QUESTION–MULTIPLE CHOICE

Specifications

–Answer alternatives presented in random order
–Response specific feedbacks
–No long 1 feature
–6 incorrect attempts permitted
–Instructor called after 6th incorrect attempt
If keyboard LOCKS, type: unlock
–Unanticipated response feedback
–Correct answer: Linus

In the Charlie Brown cartoon series which character carries a blanket much of the time?

1. **The big pumpkin**
2. **Schroeder**
3. **Pig Pen**
4. **Linus**
5. **Charlie Brown**
6. **Lucy**

>

Feedbacks

Feedback given student for specific answer alternative selected.

Alternative 1–You've got to be putting me on.
Alternative 2–He's the piano player.
Alternative 3–The blanket would rot away.
Alternative 4*–We all need our crutches.
Alternative 5–He needs gumption, not a blanket!
Alternative 6–Believe me. He needs no blanket.

* Correct answer feedback

MONIFORM4 SAMPLE QUESTION–MULTIPLE CHOICE

Specifications

–Answer alternatives presented in order specified by author (not random)
–Response specific try again feedbacks
–Long 1 feature
–6 incorrect attempts permitted
–Correct answer given after 6th incorrect attempt
–Unanticipated response feedback
–Correct answer: Burt Reynolds

Who was the first male to appear nude in the centerfold of a women's magazine?

1. **Tiny Tim**
2. **John Cameron Sweazey**
3. **Moshe Dayan**
4. **Burt Reynolds**
5. **Nixon**
6. **Wilbur Mills**

Feedbacks

Feedback given student for specific answer alternative selected

Alternative 1–Who would pay to see him naked?
Alternative 2–He gets his kicks by being well dressed.
Alternative 3–No. He even keeps one eye covered.
Alternative 4*–RIGHT! Shameless!
Alternative 5–What was uncovered was not his body.
Alternative 6–His secret love life was uncovered.

*Correct answer feedback

MONIFORM5 SAMPLE QUESTION–CONSTRUCTED RESPONSE

Specifications

- –4 general try again feedbacks (not response specific)
- –5 incorrect attempts permitted
- –correct answer given after 5th incorrect attempt
- –feedback provided if student presses NEXT without entering an answer
- –specs: nomark,bumpshift,nookno
- –optional words: the, drink, is, it, is
- –answer: water OR H_2O

What popular drink, used by people of all ages and in all cultures, has the fewest number of calories?

>

Feedbacks

Feedback given student for correct answer

True, but it's not as good as Scotch!

Feedbacks given student for each incorrect try

Try 1–It is a clear fluid.
Try 2–It consists of hydrogen and oxygen.
Try 3–It is found in most homes in the U.S.
Try 4–We use it to make ice cubes.
Try 5–The correct answer is: water.

MONIFORM6 SAMPLE QUESTION–CONSTRUCTED RESPONSE

Specifications

–5 specific wrong answer feedbacks
–1 general wrong answer feedback
–feedback provided if student presses NEXT without entering an answer
–specs: nomark,bumpshift
–6 incorrect attempts permitted
–answer given after 6th incorrect attempt
–optional words: day,is,the,we,celebrate,with,fireworks
–wrong answers: xmas OR Christmas
Easter
Valentines day OR St Valentine's day
New Years day OR New Years OR 1 January
OR New Years Eve
Labor Day
–correct answers: 4th of July OR fourth of July OR
forth of July OR July 4th

What day do Americans celebrate with fireworks?

Feedbacks

Feedback given student for correct answer

They certainly are noisy.

Feedback given student for specific wrong answers

Xmas or Christmas
That's a Christmas tree.
Valentines Day or St. Valentine's Day
That's a day for lovers.
New Year's Day or New Year's or 1 January
or New Years Eve
True, but most celebrate with booze.
Labor Day
It is too hot for firecrackers.

Feedback given student for unanticipated wrong answers

Come off it. Try again.

MONIFORM7 SAMPLE QUESTION—CONSTRUCTED RESPONSE

Specifications

—5 response specific try again feedbacks
—4 general try again feedbacks
—feedback provided if student presses NEXT without entering a response
—6 incorrect attempts permitted
—instructor called after 6th incorrect attempt
If keyboard LOCKS, type: unlock
—specs: bumpshift, nomark
—optional words: it,is,it's,the,state,of
—wrong answers: Pa OR Pennsylvania
NJ OR New Jersey
NY OR New York
Va OR Virginia
Md OR Maryland
—correct answer: Delaware OR Del. OR DE

What was the first state to join the U.S.?

>

Feedbacks

Feedbacks given student for correct answer

Delaware—A small but powerful state.

Feedbacks given student for specific wrong answers

Pa or Pennsylvania—They were second in the Union.
NJ or New Jersey—That's known as the Garden State.
NY or New York—The Empire State could not be first.
Va or Virginia—Virginia is for lovers.
Md or Maryland—Spiro's home doesn't make it.

Feedbacks given student for unanticipated wrong answers

1. It's located in the East on the ocean.
2. It's the second smallest state.
3. It has a river named after it.
4. It's between Pa, NJ, and Md.

MONIFORM8 SAMPLE QUESTION–MATCHING

Specifications

–matching items presented in random order
–student uses "w" and "x" keys to position pointer and select match
–2 attempts at entire matching problem permitted
–after 2nd incorrect attempt correct answer given
–author writes NO feedbacks except correct answer feedback
–correct answers: 1-delicioso; 2-pacifista; 3-casa;
4-voluptuoso; 5-grande; 6-hombre; 7-martes

Match the Spanish word with the English word.

→	1.	delicious	delicioso
	2.	pacifist	hombre
	3.	house	pacifista
	4.	voluptuous	casa
	5.	large	Martes
	6.	man	voluptuoso
	7.	Tuesday	grande

Use the "w" & "x" keys to position pointer. Then press NEXT

Feedbacks

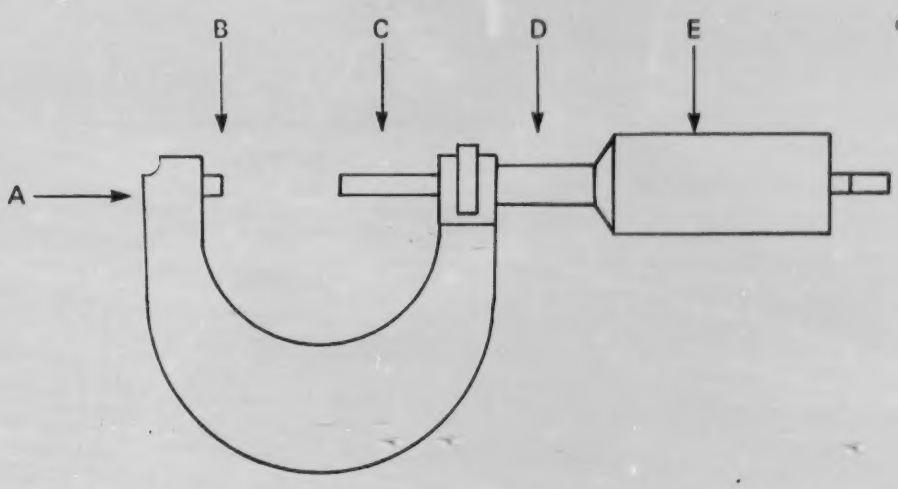
Feedback given student for correct answer

Muy Bien

MONIFORM9 SAMPLE QUESTION–MATCHING

Specifications

–student may move arrow up and down to leave item blank or correct answer
–student informed of specific incorrect matches
–2 attempts at entire matching problem permitted
–after 3rd incorrect attempt correct answer given
–correct answers: 1-d,2-a,3-e,4-c,5-b



Match the parts of the micrometer shown above. Type the appropriate letters below.

1. barrel
2. frame
3. thimble
4. spindle
5. anvil

You may move the arrow backwards to correct an error by pressing the BACK key

Do NOT press NEXT after entering an answer. Press NEXT to leave a question blank or skip an already answered question

Feedbacks

Feedback given student for correct answer

You really know the micrometer.

B-11

Completed MONIFORMS

C

COMPLETED MONIFORMS

The reasons for including completed MONIFORMS in this lesson are:

1. They illustrate that very little of your lesson space is used for question preparation. (What you see is all that goes into your lesson.)

2. They show the correct completion of the various MONIFORMS and therefore may be of some assistance in debugging your MONIFORM question.

Use the following definitions in examining the Index below:

random	= answer alternatives presented in random order
non-random	= answer alternatives presented in order specified by author
general	= general wrong answer feedbacks (not response specific)
specific	= response specific wrong answer feedbacks

INDEX OF COMPLETED MONIFORMS

Multiple Choice

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Constructed Response

C-7	MONIFORM5–general
C-8	MONIFORM6–specific
C-9	MONIFORM7–general/specific

Matching

C-10	Student moves pointer
C-11	Student types answer

MONIFORM1 (C[illegible]pleted) Multiple Choice

```
unit      cm1
zero      v(offset),68
calc      pos ⇦ 1Ø1Ø
write     ≪ at,pos≫ In the Winnie the Pooh series what kind
          of animal is Eeyore?  Select an animal from the
          choices below.
          $$
calc      lines ⇦ 3
pack      temp,catext,donkey
pack      temp,dist1,bear
pack      temp,dist2,kangaroo
pack      temp,dist3,owl
pack      temp,dist4,rabbit
pack      temp,dist5,
calc      nodist ⇦ 4
pack      temp,caf,You're no ass!
pack      temp,taf,No. Hint1: Eeyore has 4 legs.
pack      temp,taf2,No. Hint2: Eeyore kicks up a bit.
pack      temp,taf3,No. Hint3: Eeyore has a funny voice.
pack      temp,taf4,No. Hint4: Eeyore is gray.
calc      assist ⇦ instr
          ntaf ⇦ 4
join      drive1
join      drive12
nextnow   tries≫notries,test6a,x,
```

MONIFORM2 (Completed) Multiple Choice

```
unit      cm2
define    form1
zero      v/offset),68
calc      pos ⇦ 1510
write     ⩤ at,pos⩥ Of the people listed below, which one was
          a famous labor union leader?
calc      lines ⇦ 2
pack      temp,alt1,Jim Brown
pack      temp,alt2,Bobby Riggs
pack      temp,alt3,Jules Verne
pack      temp,alt4,John L. Lewis
pack      temp,alt5,
pack      temp,alt6,
calc      nodist ⇦ 4
          answ ⇦ 4
          notries ⇦ 3
pack      temp,caf,True! A real giant of a man.
pack      temp,taf,No. Who had bushy eyebrows?
pack      temp,taf2No. Which one was once a miner?
pack      temp,taf3,
pack      temp,taf4,
calc      ntaf ⇦ 2
          assist ⇦ answer
          long1 ⇦ 1
join      drive1a
join      drive12
nextnow   remed > 0,q2r,x,
```

MONIFORM3 (Completed) Multiple Choice

```
unit      myname
next      nextu
define    form1
zero      v(offset),72
calc      pos ⇦ 151Ø
write     ≺ at,pos≻ In the Charlie Brown cartoon series which
          character carries a blanket much of the time?
          $$
          $$
calc      lines ⇦ 2
pack      temp,catext,Linus
pack      temp,caf,We all need our crutch!
pack      temp,dist1,Charlie Brown
pack      temp,taf,He needs gumption, not a blanket!
pack      temp,dist2,Schroeder
pack      temp,taf2,He's the piano player.
pack      temp,dist3,Pig Pen
pack      temp,taf3,The blanket would rot away!
pack      temp,dist4,Lucy
pack      temp,taf4,Believe me.  She needs no blanket!
pack      temp,dist5,The big pumpkin
pack      temp,taf5,You've gotta be putting me on!
calc      nodist ⇦ 5
          notries ⇦ 6
          assist ⇦ instr
          long1 ⇦ Ø
join      drive1
join      drive9
nextnow   remed=0,x,itsname
```

50

MONIFORM4 (Completed) Multiple Choice

```
unit      Thisu
next      nexunit
define    form1
zero      v(offset),76
calc      pos ⇦1210
write     ≪ at,pos≫ Who was the first male to appear nude
          in the centerfold of a women's magazine?
          $$
          $$
calc      lines ⇦2
pack      temp,alt1,Tiny Tim
pack      temp,taf,Who would pay to see him naked?
pack      temp,alt2,John Cameron Sweazey
pack      temp,taf2,He gets his kicks by being well dressed.
pack      temp,alt3,Moshe Dayan
pack      temp,taf3,No! He even keeps one eye covered.
pack      temp,alt4,Burt Reynolds
pack      temp,taf4,RIGHT! Shameless!
pack      temp,alt5,Nixon
pack      temp,taf5,What was uncovered was not his body.
pack      temp,alt6,Wilbur Mills
pack      temp,taf6,His secret love life was uncovered.
calc      nodist ⇦6
          answ ⇦4
          assist ⇦answer
          long1 ⇦1
join      drive1a
join      drive9
nextnow   remed=Ø,x,q40
```

MONIFORM5 (Completed) Constructed Response

```
unit      mnform5
define    form1
zero      v(offset),68
calc      pos ⇦ 1305
write     ⟨ at,pos⟩ What popular drink used by people of all
          ages, and in all cultures, has the fewest number of
          calories?
          $$
calc      lines ⇦ 3
vocabs    mnform5
          < the,drink,is,it>
          catext,water,h2o)
pack      temp,catext,Water
pack      temp,caf,True, but it's not as good as Scotch!
pack      temp,taf,It is a clear fluid.
pack      temp,taf2,It consists of hydrogen and oxygen.
pack      temp,taf3,It is found in most homes in the U.S.
pack      temp,taf4,We use it to make ice cubes.
calc      ntaf ⇦ 4
          notries ⇦ 5
          assist ⇦ answer
          pos ⇦ pos+ (linesx100)
arrow     pos+200
specs     nomark,bumpshift,nookno
join      drive16
nextnow   remed=0,x,q5a
goto      ansok,drive14,drive15,
concept   catext
```

MONIFORM6 (Completed) Constructed Response

```
unit      mnform6
define    form1
zero      v(offset),72
calc      pos ⇦ 221Ø
vocabs    mnform6
          <day,is,the,we,celebrate,with,fireworks>
          (catext,4*th*of*july,fourth*of*july,forth*of*july,
          july*4*th)
          (alt1,xmas,christmas)
          (alt2,easter)
          (alt3,valentines*day,st*valentine7s*day)
          (alt4,new*years*day,new*years,1*january,new*years*eve)
          (alt5,labor*day)
write     ⋖ at,pos ⋗ What day do we in the United States celebrate
          with fireworks?
calc      lines ⇦ 2
pack      temp,catext,Fourth of July
pack      temp,caf,They certainly are noisy.
pack      temp,taf,That's a Christmas tree.
pack      temp,taf2,A rabbit doesn't shoot firecrackers.
pack      temp,taf3,That's a day for lovers.
pack      temp,taf4,True, but most celebrate with booze.
pack      temp,taf5,It is too hot for firecrackers.
pack      temp,waf,Come off it.  Try again.
calc      notries ⇦ 6
          assist ⇦ answer
          pos ⇦ pos+(linesx1ØØ)
arrow     pos+2ØØ
specs     nomark,bumpshift
join      drive16
nextnow   remed=Ø,x,q6a
goto      ansok,drive14,drive17,
concept   catext
concept   alt1
concept   alt2
concept   alt3
concept   alt4
concept   alt5
```

MONIFORM7 (Completed) Constructed Response

```
unit      yrname
define    form1
zero      v(offset),79
calc      pos ⇦ 2210
vocabs    yrname
          < it,is,it7s,the,state,of>
          (catext,delaware,del,de)
          (alt1,pa,pennsylvania)
          (alt2,nj,new*jersey)
          (alt3,ny,new*york)
          (alt4,va.virginia)
          (alt5,md,maryland)
write     ⟨ at,pos ⟩ What was the first state to join the U.S.?
calc      lines ⇦ 1
pack      temp,catext,Delaware
pack      temp,caf,A small but powerful state.
pack      temp,taf,They were second in the Union.
pack      temp,taf2,That's known as the Garden State.
pack      temp,taf3,The Empire State could not be first.
pack      temp,taf4,Virginia is for lovers.
pack      temp,taf5,Spiro's home doesn't make it.
pack      temp,waf,It's located in the East on the ocean.
pack      temp,waf2,It's the second smallest state.
pack      temp,waf3,It has a river named after it.
pack      temp,waf4,It's between Pa,NJ, and Md.
calc      notries ⇦ 6
          ntaf ⇦ 4
          assist ⇦ instr
          pos ⇦ pos+(linesx100)
arrow     pos+200
specs     nomark,bumpshift
join      drive16
nextnow   remed=0,x,review,
goto      ansok,drive14,drive18,
concept   catext
concept   alt1
concept   alt2
concept   alt3
concept   alt4
concept   alt5
```

MONIFORM8 (Completed) Matching

```
unit    myunit
define  form1
zero    v(offset),85
at      1410
write   Match the Spanish word with the English word.

            1.  delicious
            2.  pacifist
            3.  house
            4.  voluptuous
            5.  large
            6.  man
            7.  Tuesday
pack    temp,match1,delicioso
pack    temp,match2,pacifista
pack    temp,match3,casa
pack    temp,match4,voluptuoso
pack    temp,match5,grande
pack    temp,match6,hombre
pack    temp,match7,Martes
pack    temp,match8,
pack    temp,match9,
pack    temp,caf,Muy bien!
calc    posA ⇦ 1612
        posB ⇦ 1633
        pos ⇦ 24
        noalt ⇦ 7
        assist ⇦ answer
join    drive19
jump    rightT=noalt qdex,q8a
```

MONIFORM9 (Completed) Matching

```
unit    itsname
zero    n(offset),13
at      912
write   Match the chemical compounds below with
        their formulae.
```

1.	Sulfuric Acid	a.	$C_{12}H_{22}O_{11}$
2.	Water	b.	KC1
3.	Sugar	c.	H_2O_2
4.	Table Salt	d.	H_2SO_4
5.	Hydrochloric Acid	e.	NaCl
6.	Potassium Chloride	f.	H_2O
7.	Lead Oxide	g.	HCl
8.	Peroxide	h.	PbO_2

```
pack    temp2,n(offset+1),dfaegbhc
pack    temp2,caf1,You did extremely well.
calc    arrow1 ⇦ 12Ø8
        noalt ⇦ 8
        notries ⇦ 4
        space ⇦ 2
        assist ⇦ instr
join    drive3Ø
next    totcor=noalt,qdex,qdex,
```

Uncompleted MONIFORMS

D

UNCOMPLETED MONIFORMS

The uncompleted MONIFORMS shown in this section of the lesson represent code that must be copied into your lesson space and then modified by following instructions that follow the $$ in the MONIFORMS.

The uncompleted MONIFORMS that you copy into your lesson are located in lesson "hum8". Additional assistance in completing the MONIFORMS can be obtained from the Main Index (page J-1, "Assistance with Code Completion".

Use the following definitions in examining the Index below:

random	=	answer alternatives presented in random order
non-random	=	answer alternatives presented in order specified by author
general	=	general wrong answer feedbacks (not response specific)
specific	=	response specific wrong answer feedbacks

INDEX OF UNCOMPLETED MONIFORMS

Multiple Choice

Page	
D-3	MONIFORM1–random/general
D-4	MONIFORM2–non-random/general
D-5	MONIFORM3–random/specific
D-6	MONIFORM4–non-random/specific

Constructed Response

D-7	MONIFORM5–general
D-8	MONIFORM6–specific
D-9	MONIFORM7–general/specific

Matching

D-10	Student moves pointer
D-11	Student types answer

MONIFORM1 (Uncompleted)—Multiple Choice

```
unit      form1                 $$ r form1 with your unit name
next      nextu                 $$ r nextu with unit name S goes to if
                                $$ he gives correct answer
define    form1                 $$ copy as is
zero      v(offset),68          $$ copy as is
calc      pos⇦                  $$ add screen position to begin quest
write     ⋖ at,pos ⋗            $$ add after ⋗ line 1 of question
          $$                    $$ r first $$ with line 2 of question
          $$                    $$ r first $$ with line 3 of question
          $$                    $$ r first $$ with line 4 of question
calc      lines⇦                $$ add # of lines of questions used
pack      temp,catext,          $$ add correct answer alternative
pack      temp,dist1,           $$ add text for distractor 1
pack      temp,dist2,           $$ add text for distractor 2
pack      temp,dist3,           $$ add text for distractor 3
pack      temp,dist4,           $$ add text for distractor 4
pack      temp,dist5,           $$ add text for distractor 5
calc      nodist⇦               $$ add # distractors used
          notries⇦              $$ add # attempts permitted
          long1⇦                $$ add 1 for immed. judging (long1); add
                                $$ Ø if S must first press next to judge
pack      temp,caf,             $$ add correct answer feedback
pack      temp,taf,             $$ add text for try again feedback 1
pack      temp,taf2,            $$ add text for try again feedback 2
pack      temp,taf3,            $$ add text for try again feedback 3
pack      temp,taf4,            $$ add text for try again feedback 4
calc      ntaf⇦                 $$ add # of try again feedbacks used
          assist⇦               $$ add: instr—for instructor assistance OR
                                $$ add: answer—correct answer given
                                $$ add: none—no assistance given
join      drive1                $$ copy as is
join      drive12               $$ copy as is
nextnow remed>Ø, otheru,x,      $$ r "otheru" with unit S
                                $$ goes if answ given him
```

MONIFORM2 (Uncompleted) Multiple Choice

```
unit      form2              $$ r form2 with your unit name
next      nextu              $$ r nextu with unit name S goes to
                             $$ if he gives correct answer
define    form1              $$ copy as is
zero      v(offset),68       $$ copy as is
calc      pos⇦               $$ add screen position to begin question
write     ⋖ at,pos⋗          $$ add after ⋗ line 1 of question
          $$                 $$ r first $$ with line 2 of question
          $$                 $$ r first $$ with line 3 of question
          $$                 $$ r first $$ with line 4 of question
calc      lines⇦             $$ add # of lines of questions used
*you are allowed 6 answer alternatives 1 of which
*must be the correct answer.
pack      temp,alt1,         $$ add answer alternative 1
pack      temp,alt2,         $$ add answer alternative 2
pack      temp,alt3,         $$ add answer alternative 3
pack      temp,alt4,         $$ add answer alternative 4
pack      temp,alt5,         $$ add answer alternative 5
pack      temp,alt6,         $$ add answer alternative 6
calc      nodist⇦            $$ add # alternatives used
          answ⇦              $$ add the # of the alternative
                             $$ which is the correct answer
          notries⇦           $$ add # attempts permitted
pack      temp,caf,          $$ add correct answer feedback
pack      temp,taf,          $$ add text for try again feedback 1
pack      temp,taf2,         $$ add text for try again feedback 2
pack      temp,taf3,         $$ add text for try again feedback 3
pack      temp,taf4,         $$ add text for try again feedback 4
calc      ntaf⇦              $$ add # of try again fdbacks used (1,2,3,4)
          assist⇦            $$ add: instr—for instr assistance OR
                             $$ answer—correct answer given OR none
          long1⇦             $$ add 1 for immed. judging (long1);add Ø
                             $$ if S must first press NEXT
join      drive1a            $$ copy as is
join      drive12            $$ copy as is
```

MONIFORM3 (Uncompleted) Multiple Choice

```
unit      form3                 $$ r form3 with your unit name
next      nextu                 $$ r nextu with name of next unit
define    form1                 $$ copy as is
zero      v(offset),72          $$ copy as is
calc      pos⇦                  $$ add screen position to begin question
write     ⟪at,pos⟫              $$ add line 1 of question
          $$                    $$ r first $$ with line 2 of question
          $$                    $$ r first $$ with line 3 of question
          $$                    $$ r first $$ with line 4 of question
calc      lines⇦                $$ add # lines of questions used
pack      temp,catext,          $$ add text for correct
pack      temp,caf,             $$ add correct answer feedback
pack      temp,dist1,           $$ add text for 1st distractor (dist)
pack      temp,taf,             $$ add text of try again fdback dist1
pack      temp,dist2,           $$ add text for 2d distractor
pack      temp,taf2,            $$ add text of try again fdback dist2
pack      temp,dist3,           $$ add text for 3d distractor
pack      temp,taf3,            $$ add text of try again fdback dist3
pack      temp,dist4,           $$ add text for 4th distractor
pack      temp,taf4,            $$ add text of try again fdback dist4
pack      temp,dist5,           $$ add text for 5th distractor
pack      temp,taf5,            $$ add text of try again fdback dist5
calc      nodist⇦               $$ add # distractors written
          notries⇦              $$ add # attempts student permitted
          assist⇦               $$ add: instr—for instructor assistance OR
                                $$ add: answer—answer given OR none
          long1⇦                $$ add 1 for immed. judging (long1); add Ø
                                $$ if S must first press next
join      drive1                $$ copy as is
join      drive9                $$ copy as is
nextnow remed=Ø,x,otheru,       $$ r otheru with name of
                                $$ remediation unit
```

MONIFORM4 (Uncompleted) Multiple Choice

```
unit      form4                 $$ r form4 with your unit name
next      nextu                 $$ r nextu with name of next unit
define    form1                 $$ copy as is
zero      v(offset),76          $$ copy as is
calc      pos⇦                  $$ add screen position to begin question
write     ⟨at,pos⟩              $$ add line 1 of question
          $$                    $$ r first $$ with line 2 of question
          $$                    $$ r first $$ with line 3 of question
          $$                    $$ r first $$ with line 4 of question
calc      lines⇦                $$ add # lines of questions used
*this question allows 6 answer alternatives 1 of which must
*be the correct answer
pack      temp,alt1,            $$ add answer alternative 1
pack      temp,taf,             $$ add alternative 1 try again fdback
pack      temp,alt2,            $$ add answer alternative 2
pack      temp,taf2,            $$ add alternative 2 try again fdback
pack      temp,alt3,            $$ add answer alternative 3
pack      temp,taf3,            $$ add alternative 3 try again fdback
pack      temp,alt4,            $$ add answer alternative 4
pack      temp,taf4,            $$ add alternative 4 try again fdback
pack      temp,alt5,            $$ add answer alternative 5
pack      temp,taf5,            $$ add alternative 5 try again fdback
pack      temp,alt6,            $$ add answer alternative 6
pack      temp,taf6,            $$ add alternative 6 try again fdback
calc      nodist⇦               $$ add # alternatives written
          answ⇦                 $$ add the # of the alternative which
                                $$ is the correct answer
          notries ⇦             $$ add # attempts student permitted
          assist ⇦              $$ add: instr—for instructor assistance OR
                                $$ add: answer—correct answer given OR none
          long1 ⇦               $$ add 1 for immed. judging (long1); add Ø
                                $$ if S must press next to judge answer
join      drive1a               $$ copy as is
join      drive9                $$ copy as is
nextnow remed=Ø, x,otheru,      $$ r otheru with name of
                                $$ remediation unit
```

MONIFORM5 (Uncompleted) Constructed Response

```
unit      form5                  $$ r form5 with your unit name
next      nextu                  $$ r nextu with unit name S goes to
define    form1                  $$ copy as is
zero      v(offset),68           $$ copy as is
calc      pos⇦                   $$ add starting position of question
write     ⧼at,pos⧽               $$ add line 1 of question
          $$                     $$ r first $$ with line 2 of question
          $$                     $$ r first $$ with line 3 of question
          $$                     $$ r first $$ with line 4 of question
calc      lines⇦                 $$ add # lines if question used
vocabs    form3                  $$ r form3 with your unit name
          <zz,zz,zz>             $$ r zzzz with optional words wanted
          (catext,zzzz)          $$ r zzzz with correct answer(s)
pack      temp,catext,           $$ add correct answer (only one)
pack      temp,caf,              $$ add correct answer feedback
pack      temp,taf,              $$ add text for try again fdback try 1
pack      temp,taf2,             $$ add text for try again fdback try 2
pack      temp,taf3,             $$ add text for try again fdback try 3
pack      temp,taf4,             $$ add text for try again fdback try 4
calc      ntaf⇦                  $$ add # of try again fdbacks used
          notries⇦               $$ add # attempts student permitted
          assist⇦                $$ add: instr—for instructor assistance OR
                                 $$ add: answer—correct answer given OR none
pos⇦pos+(lines x 100)            $$ copy as is
arrow     pos+200                $$ copy as is
specs     $$                     $$ r first $$ with specs you want
join      drive16                $$ copy as is
nextnow   remed=0,x,otheru,      $$ r otheru with remediation unit
goto      ansok,drive14,drive15, $$ copy as is
concept   catext                 $$ copy as is
```

MONIFORM6 (Uncompleted) Constructed Response

```
unit      form4                $$ r form6 with your unit name
next      nextu                $$ r nextu with your next unit
define    form1                $$ copy as is
zero      v(offset),72         $$ copy as is
calc      pos⇳                 $$ add screen position to start
write     ⩤ at,pos ⩥           $$ add line 1 of question
          $$                   $$ r first $$ with line 2 of question
          $$                   $$ r first $$ with line 3 of question
          $$                   $$ r first $$ with line 4 of question
calc      lines⇳               $$ add # question lines used
vocabs    form6                $$ r form6 with your unit name
          <zz,zz,zz>           $$ r zz's with optional words
          (catext,zzzz)        $$ r zz's with correct answer
          (alt1,wrong1)        $$ r wrong 1 with incorrect answer 1
          (alt2,wrong2)        $$ r wrong 2 with incorrect answer 2
          (alt3,wrong3)        $$ r wrong 3 with incorrect answer 3
          (alt4,wrong4)        $$ r wrong 4 with incorrect answer 4
          (alt5,wrong5)        $$ r wrong 5 with incorrect answer 5
pack      temp,catext,         $$ add correct answer (one only)
pack      temp,caf,            $$ add correct answer feedback
pack      temp,taf,            $$ add feedback for wrong answer 1
pack      temp,taf2,           $$ add feedback for wrong answer 2
pack      temp,taf3,           $$ add feedback for wrong answer 3
pack      temp,taf4,           $$ add feedback for wrong answer 4
pack      temp,taf5,           $$ add feedback for wrong answer 5
pack      temp,waf,            $$ add fdback—"general" wrong answer
calc      notries⇳             $$ add # attempts student permitted
          assist⇳              $$ add: instr—for instructor assistance OR
                               $$ add: answer—correct answer given OR none
          pos⇳ pos + (lines x 100)      $$ copy as is
          arrow    pos + 200            $$ copy as is
          specs    $$                   $$ r first $$ with desired specs
join      drive16              $$ copy as is
nextnow remed=0x,otheru,       $$ r otheru with name remed unit
goto      ansok,drive14,drive17,       $$ copy as is
concept catext                 $$ copy as is
concept alt1                   $$ copy as is (delete if not used)
concept alt2                   $$ copy as is (delete if not used)
concept alt3                   $$ copy as is (delete if not used)
concept alt4                   $$ copy as is (delete if not used)
concept alt5                   $$ copy as is (delete if not used)
```

MONIFORM7 (Uncompleted) Constructed Response

```
unit      form7                  $$ r form7 with your unit name
next      nextu                  $$ r nextu with your next unit
define    form1                  $$ copy as is
zero      v(offset),88           $$ copy as is
calc      pos⇦                   $$ add screen position to start
write     ⟨ac,pos⟩               $$ add line 1 of question
          $$                     $$ r first $$ with line 2 of question
          $$                     $$ r first $$ with line 3 of question
          $$                     $$ r first $$ with line 4 of question
calc      lines⇦                 $$ add # question lines used
vocabs    form7                  $$ r form7 with your unit name
          <zz,zz,zz>             $$ r zz's with optional words
          (catext,zzzz)          $$ r zz's with correct answer
          (alt1,wrong1)          $$ r wrong 1 with incorrect answer 1
          (alt2,wrong2)          $$ r wrong 2 with incorrect answer 2
          (alt3,wrong3)          $$ r wrong 3 with incorrect answer 3)
          (alt4,wrong4)          $$ r wrong 4 with incorrect answer 4
          (alt5,wrong5)          $$ r wrong 5 with incorrect answer 5
pack      temp,catext,           $$ add correct answer (one only)
pack      temp,caf,              $$ add correct answer feedback
pack      temp,taf,              $$ add feedback for wrong answer 1
pack      temp,taf2,             $$ add feedback for wrong answer 2
pack      temp,taf3,             $$ add feedback for wrong answer 3
pack      temp,taf4,             $$ add feedback for wrong answer 4
pack      temp,taf5,             $$ add feedback for wrong answer 5
pack      temp,waf,              $$ add general feedback 1
pack      temp,waf2,             $$ add general feedback 2
pack      temp,waf3,             $$ add general feedback 3
pack      temp,waf4,             $$ add general feedback 4
calc      ntaf⇦                  $$ add # of general fdbacks used
          notries⇦               $$ add # attempts student permitted
          assist⇦                $$ add: instr—for instructor assistance OR
                                 $$ add: answer—correct answer given OR none
          pos⇦pos+(lines x 100)      $$ copy as is
arrow     pos+200                $$ copy as is
specs     $$                     $$ r first $$ with desired specs
join      drive16                $$ copy as is
nextnow remed=0,x,otheru,        $$ r otheru with name remed unit
goto      ansok,drive14,drive18,          $$ copy as is
concept catext                   $$ copy as is
concept alt1                     $$ copy as is (delete if not used)
concept alt2                     $$ copy as is (delete if not used)
concept alt3                     $$ copy as is (delete if not used)
concept alt4                     $$ copy as is (delete if not used)
concept alt5                     $$ copy as is (delete if not used)
```

MONIFORM8 (Uncompleted) Matching

```
unit      form8                 $$ r form8 with your unit name
define    form1                 $$ copy as is
zero      v(offset),85          $$ copy as is
*enter ID mode to insert your question. NOTE THE FOLLOWING:
*1. Max of 9 match questions (items) numbered 1 thru N
*2. Do not include match answers (these are packed below)
*3. Do not include instructions for moving pointer
*4. Graphics may be included in matching question
*5. Note screen position of 1st matching question (enter it
*   below after the arrow in "calc   posA⇦ ")
*6. NOTE:  See "Sample Question" & "Completed MONIFORM" in
*   lesson "moniform" (student) for help, if necessary
pack      temp,match1,          $$ add match answer item 1
pack      temp,match2,          $$ add match answer item 2
pack      temp,match3,          $$ add match answer item 3
pack      temp,match4,          $$ add match answer item 4
pack      temp,match5,          $$ add match answer item 5
pack      temp,match6,          $$ add match answer item 6
pack      temp,match7,          $$ add match answer item 7
pack      temp,match8,          $$ add match answer item 8
pack      temp,match9,          $$ add match answer item 9
pack      temp,caf,             $$ add correct answer feedback
calc      posA⇦                 $$ add screen position of first
                                $$ match question
          posB⇦                 $$ add screen position for first
                                $$ match answer
          pos⇦                  $$ add line # for feedbacks to begin
                                $$ (no greater than 28)
          noalt⇦                $$ add # match questions used
          notries⇦              $$ add # attempts student permitted
          assist⇦               $$ add: instr—for instructor assistance OR
                                $$ add: answer—correct answer given OR none
join      drive19               $$ copy as is
jump      rightT=noalt,nextu,review,    $$ r nextu with next unit
                                        $$ r review with unit S
                                        $$ goes if answ given him
```

MONIFORM9 (Uncompleted) Matching

```
unit    form9                $$ r form9 with your unit name
zero    n(offset),13         $$ copy as is
*Go to "ID" mode to insert your question.  Note the following:
*1.  You are limited to 10 matching items
*2.  Answers must be letters (i.e., a, b, c, d, etc.)
*3.  Note the screen position of where you want the first
*    arrow to appear
*4.  The -pack- command below requires the "correct answer
*    string" to be added (e.g., temp2,n(offset + 1),dafebc)
pack    temp2,n(offset + 1), $$ add correct answ string
pack    temp2,caf1,          $$ add correct answer message
calc    arrow1⇦              $$ add position for first arrow
        noalt⇦               $$ add # of matching items used
        notries⇦             $$ add # of times thru items allowed
        space⇦               $$ add 1, 2, or 3 for spaces btwn items
        assist⇦              $$ add: instr—for instructor assistance OR
                             $$ add: answer—correct answer given OR none
join    drive30              $$ copy as is
next    totcor=noalt,nextu,otheru,   $$ r nextu with next unit
                                     $$ r otheru with remediation
                                     $$ unit
```

MONIFORM Characteristics

E

MONIFORM CHARACTERISTICS

Many of the MONIFORMS are similar except for the type of feedback given the student for an incorrect answer. In the MONIFORMS they are called "general" feedbacks and "response specific" feedbacks. They are defined as follows:

General	The feedback given is the same, independent of the specific incorrect answer given by the student. However, different feedbacks may be given for successive attempts at the question.
Response Specific	The feedback given is dependent upon the specific incorrect response given by the student.

Use the following definitions in examining the Index below:

random	=	answer alternatives presented in random order
non-random	=	answer alternatives presented in order specified by author
general	=	general wrong answer feedbacks (not response specific)
specific	=	response specific wrong answer feedbacks

INDEX OF MONIFORM CHARACTERISTICS

Multiple Choice

Page	
E-3	MONIFORM1–random/general
E-4	MONIFORM2–non-random/general
E-5	MONIFORM3–random/specific
E-6	MONIFORM4–non-random/specific

Constructed Response

E-7	MONIFORM5–general
E-8	MONIFORM6–specific
E-9	MONIFORM7–general/specific

Matching

E-10	Student moves pointer
E-11	Student types answer

MONIFORM1 CHARACTERISTICS
(Multiple Choice)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-12	One correct answer (40 characters long)
E-13	1-4 distractors (40 characters long)
E-14	Answer alternatives presented in random order
E-15	Option of having long 1 feature
E-16	Author specifies # of attempts student is allowed
E-17	1 author specified correct answer feedback
E-18	1-4 author specified general feedbacks
E-19	Unanticipated response feedback
E-20	Author specifies type of assistance student receives when try limit reached (instr,answer, none)
E-21	2 author specified branching units

MONIFORM2 CHARACTERISTICS
(Multiple Choice)

All characteristics are identical to MONIFORM1 except:

MONIFORM1—answer alternatives presented in random order

MONIFORM2—answer presented in order specified by author

Turn to page E-3 to see characteristics of MONIFORM1.

MONIFORM3 CHARACTERISTICS
(Multiple Choice)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-12	One correct answer (40 characters long)
E-13	1-4 distractors (40 characters long)
E-14	Answer alternatives presented in random order
E-15	Option of having long 1 feature
E-16	Author specified # of attempts student is allowed
E-17	1 author specified correct answer feedback
E-22	1-5 response specific incorrect answer try again feedbacks
E-19	Unanticipated response feedback
E-20	Author specified type of assistance student receives when try limit reached (instr,answer, none)
E-21	2 author specified branching units

MONIFORM4 CHARACTERISTICS
(Multiple Choice)

All characteristics are identical to MONIFORM3 except:

MONIFORM3—answer alternatives presented in random order

MONIFORM4—answer alternatives presented in order specified by author

Turn to page E-5 to see the characteristics of MONIFORM3.

MONIFORM5 CHARACTERISTICS
(Constructed Response)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-23	Synonymous answers (or phrases) permitted
E-24	Optional words permitted in answer
E-25	Author selected specification for judging of student answer (only specs permitted with -concept- command)
E-17	1 author specified correct answer feedback
E-16	Author specified # of attempts student permitted
E-26	1-4 author specified general (not response specific) incorrect answer try again feedbacks
E-19	Unanticipated response feedback
E-20	Author specified type of assistance student receives when try limit reached (instr, answer, none)
E-21	2 author specified branching units

MONIFORM6 CHARACTERISTICS
(Constructed Response)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-23	Synonymous answers (or phrases) permitted
E-24	Optional words permitted in answer
E-25	Author selected specification for judging of student answer (only specs permitted with -concept- command)
E-17	1 author specified correct answer feedback
E-22	1-5 response specific incorrect answer try again feedbacks
E-27	1 general incorrect answer try again feedback
E-16	Author specified # of attempts student permitted
E-19	Unanticipated response feedback
E-20	Author specified type of assistance student receives when try limit reached (instr, answer, none)
E-21	2 author specified branching units

MONIFORM7 CHARACTERISTICS
(Constructed Response)

MONIFORM7 is a combination of MONIFORM5 and MONIFORM6. That is, in MONIFORM5 only "general" feedbacks (not response specific) are presented to the student for incorrect answers; in MONIFORM6 response specific feedbacks are given.

MONIFORM7 provides the student with both "general" and "response specific" feedbacks.

Do not use MONIFORM7 when MONIFORM5 or 6 will satisfy your needs inasmuch as MONIFORM7 uses a little more ecs for question execution.

Turn to page E-7 to see the characteristics for MONIFORM5.
Turn to page E-8 to see the characteristics for MONIFORM6.

MONIFORM8 CHARACTERISTICS
(Matching)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-28	Maximum of 9 matching items permitted
E-29	Matching answer alternatives presented in random order
E-30	Student moves pointer to select match
E-31	After completing all matches, student given opportunity to change answers
E-16	Number of attempts at entire problem specified by author
E-32	MONIFORM provided feedback stating number of correct matches made on each attempt
E-17	Author specified correct answer feedback
E-33	3 types of author specified assistance given
E-34	2 branching units

MONIFORM9 CHARACTERISTICS
(Matching)

For additional information on any MONIFORM characteristic, listed below, turn to the page indicated.

Page	
E-35	Maximum of 10 matching items permitted (order specified by author
E-36	Single, double, or triple spacing permitted between matching items
E-37	Graphic displays may be incorporated into matching problem
E-38	Student permitted to match items in any order desired
E-39	Student permitted to change answers before final judging
E-16	Number of attempts at entire problem specified by author
E-17	Author specified correct answer feedback
E-40	Student informed of specific incorrect matches made
E-41	3 types of author specified assistance given
E-34	2 types of branching

Correct answer text is:

1. What you specify as the text for the correct answer.

2. Limited tc 40 characters (shifted characters count as 2 characters)

3. Presented in random order (as are the distractors). For example, the correct answer may be presented as "1" to student "A" and "6" to student "B".

Distractors are:

1. Incorrect answer alternatives that you provide.

2. Limited to 40 characters (shifted characters count as 2).

3. Presented in random order (as is the correct answer). For example, the distractor you write for (dist1) may appear as answer alternative 1 thru 6. Therefore, you need not worry about the order in which you put them in the MONIFORM.

Answer alternatives (i.e., correct answer and distractors) are presented to the student in random order. For example, the correct answer may be "3" for student "A" whereas it may be "6" for student "B".

The long1 feature permits you to decide whether you want judging to begin as soon as the student enters an answer, or whether you want him to press NEXT before judging begins.

This option permits you to designate the number of incorrect attempts the student will be permitted.

The correct answer feedback is:

1. The congratulatory message you wish to give the student if he gives the correct answer.

2. Limited to 40 characters (shifted characters count as 2).

General feedbacks are attempt-related rather than response-related. That is, on the first incorrect attempt at the question the student will receive general feedback1; on the second incorrect attempt, general feedback2; etc. (For multiple choice questions this is independent of the specific wrong answer given by the student.)

If the student does not enter an answer or enters an answer outside of the answer alternative range (multiple choice), she is given a MONIFORM generated feedback.

This option permits you to designate the type of assistance the student will receive if he is still incorrect after the number of attempts that you have specified (for notries) is reached.

There are three types of assistance available:

(1) instr – A message appears: Please Call Your Instructor. The keyboard locks until instructor types: unlock. The student re-tries the question.

(2) answer – A message appears: The correct answer is: (correct answer). Student is then branched to an author specified remediation type unit.

(3) none – No assistance is given. The student is branched to an author specified remediation type unit.

In all MONIFORMS the author may specify two different units that the student will be branched to depending upon his response to the question and the type of assistance that the author has specified:

(1) The unit that the student will be branched to if the question is answered correctly.

(2) The unit the student will be branched to if the attempt limit is reached and the author has specified that he be given the correct answer. After being given the correct answer he may be branched to a unit other than the one he would go to if he answered the question correctly. This feature allows the author to provide remediation type instruction to the student. (If the author does not wish remediation instruction he would enter the same unit in both cases.) NOTE: If the author specifies that the instructor be called to provide assistance, branching to a remediation type unit is not permitted.

Response specific feedbacks are those feedbacks that the author provides for specific wrong answers. That is, the feedback the student receives is dependent upon the specific wrong answer that is given. After receiving the feedback, the student re-attempts the question.

You may specify the "correct" answer as being a single word or a phrase. You may also specify synonymous words and phrases to be judged as correct. NOTE: Since these MONIFORMS use the -concept- and -vocab- commands for answer judging, be certain that you understand how phrases and synonymous words are coded with these commands.

The author may designate optional words that may be included in the student's answer that will not affect judging. However, inasmuch as these MONIFORMS use -vocab- and -concept- commands for judging, optional words will not be accepted that come in the middle of an answer consisting of a phrase (i.e., optional words must precede or follow the correct answer).

You have the option of having any "specs" that you wish used for judging the student's answer.

NOTE: These MONIFORMS use the -concept- command for execution. Not all "specs" work with the -concept- command. Only the "specs" listed will work:

- best
- bumpshift
- nomark
- nookno
- noorder
- okcap
- okspell
- okxvocab

} See Lesson AIDS for explanation.

General feedbacks are attempt-related rather than response-related. That is, on the first incorrect attempt at the question the student will receive general feedback1; on the second incorrect attempt, general feedback2; etc.

You are permitted one "general" feedback to be used in cases where the student gives an answer other than one that you have specified.

You may have as many as 9 matching items with MONIFORM8.

The match alternatives (answer alternatives) are presented in random order to the student. Therefore, when you write these you may disregard the order in which they are written.

Match alternatives are limited to 40 characters. (Shifted characters count as 2.) NOTE: Be certain when you indicate where you want these alternatives to appear on the screen that you have allowed for sufficient space.

Match items (answer alternatives) are presented to the student in random order.

The student selects his match (answer) to a specific matching item by moving a pointer (→) up and down by pressing the "w" and "x" keys. When the pointer is positioned where he wants it he presses NEXT to have his answer recorded.

Each time the student has completed the entire matching problem he receives the following message:

> "Check your answers carefully. To change any of them press the 'r' key to rework the problem. Otherwise, press NEXT. Remember, you must have a number next to each alternative."

If he does indeed press the "r" key his previous answers will be erased and he must re-do the entire problem.

Each time the student has completed all matching items he is informed of the number of correct matches that he made on that time through the matching question. He then re-tries the entire problem. Note, however, that he is not told which item he matched correctly.

This option permits you to designate the type of assistance the student will receive if his answers are still incorrect after he reaches the number of attempts that you have specified (for notries).

There are three types of assistance available:

(1) instr – A message appears: Please Call Your Instructor. The keyboard locks until instructor types: unlock. The student re-tries the question.

(2) answer – The student is given the correct answers to all matching items.

(3) none – No assistance is given. The student is branched to an author specified remediation type unit.

The author specifies two branching units:

(1) The unit the student will go to if he gets the entire matching problem correct.

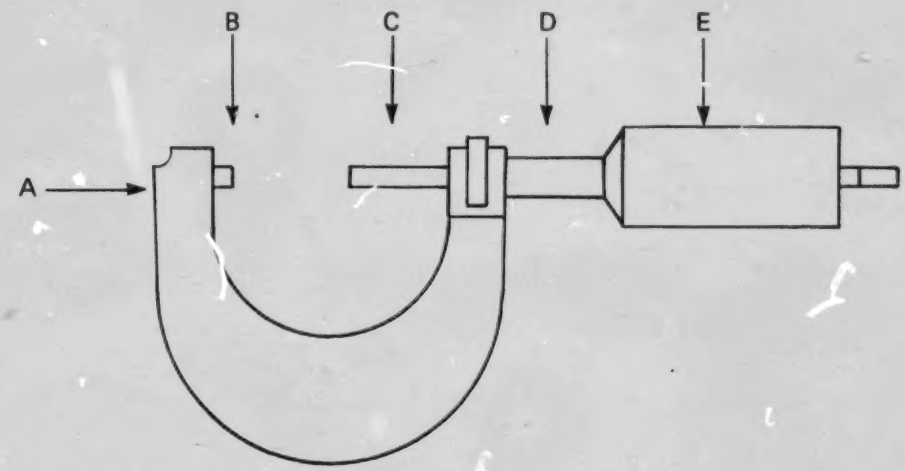
(2) The unit he goes to if the attempt limit is reached and he still has one or more incorrect matches. This can be a remediation type unit or it could be the same unit as the one he goes to if he answers them all correctly.

The author is permitted to have a maximum of 10 matching items. These are entered in "ID" Mode.

When you are writing your matching question (in ID Mode) you may have single, double, or triple spacing between matching items.

You may use graphic displays in your matching question as shown in the example below.

EXAMPLE:



Match the parts of the micrometer shown above.
Type the appropriate letters below.

› 1. barrel
2. frame
3. thimble
4. spindle
5. anvil

The student is permitted to answer the individual matching items in any order that he chooses. He may use the NEXT key to advance the arrow to a new item, or he may use the BACK key to backup the arrow.

The student may change his answer to any matching item by repositioning the arrow with the NEXT and BACK keys and then entering a new response.

Each time the student has completed the entire matching problem he is informed of the specific items he has matched incorrectly. He then re-tries these items.

This option permits you to designate the type of assistance the student will receive if his answers are still incorrect after he reaches the number of attempts that you have specified (for notries).

There are three types of assistance available:

(1) instr – A message appears: Please Call Your Instructor. The keyboard locks until instructor types unlock. The student re-tries the question.

(2) answe – The student is given the correct answers for incorrectly matched items.

(3) none – No assistance is given. The student is branched to an author specified remediation type unit.

How to use MONIFORMS

F

HOW TO USE MONIFORMS

There are 6 Steps that must be completed to use HumRRO MONIFORMS.

After you have completed your first MONIFORM, we feel that you will rarely have to refer to this section of the lessor. again.

In the 6 Steps that follow we have included, where appropriate, reference to sections in the Main Index which provide additional assistance in completing the particular step.

Read through the entire 6 Steps. Then, if you have any questions about a particular Step, refer to the referenced material in the Main Index.

Step 1

a. Select the specific MONIFORM you wish to use.

b. Be certain you are familiar with its characteristics. You may be expecting something from the MONIFORM it was not designed to provide.

ASSISTANCE AVAILABLE FROM MAIN INDEX
MONIFORM Characteristics Sample Questions

Step 2

After selecting the MONIFORM you plan to use, PLEASE leave a personal note providing the following information:

(1) MONIFORM being used
(2) Date

The above information is important for the following reasons:

(1) It gives us a guide as to which MONIFORMS are being used and thus where we should place our emphasis in MONIFORM development.
(2) It will permit us to contact you should a "bug" be discovered in the MONIFORM. (We don't expect this to happen because each MONIFORM is carefully debugged before release.)

Address note to:

re schulz–course: hum

Step 3

a. Copy Unit "setup" into your lesson ONE TIME ONLY. Unit "setup" should be in your lesson only once regardless of how many MONIFORMS you have used.

b. Copy the selected MONIFORM into your lesson.

Note: Unit "setup" and all MONIFORMS are located in lesson "hum8" which must be entered in AUTHOR MODE.

Step 4

Revise Unit "setup" as directed by the instructions that follow the $$.

a. Be certain PLATO executes Unit "setup" before it reaches the first MONIFORM.

b. MONIFORMS use student variables for execution (sometimes as many as 72). We always begin with v50 (e.g., v50-v121). You may change the variable you begin with by changing the value of "offset" in Unit "setup".

c. Be certain you have included all necessary -use- commands.

ASSISTANCE AVAILABLE FROM MAIN INDEX
Unit "setup"
Variables Used

Step 5

Revise the MONIFORM as directed by the instructions following the $$.

a. Most revisions can be made while in "replace" mode.

b. "r" means replace.

c. "add" means to add the requested information immediately after the final comma, the ⇦, or the ⇨.

d. "Copy as is" means to copy everything except the $$ and the instructions that follow the $$.

ASSISTANCE AVAILABLE FROM MAIN INDEX
Completed MONIFORMS
Assistance with Code Completion

Step 6

Try your question in student mode to see if it executes properly.

ASSISTANCE AVAILABLE FROM MAIN INDEX
Debugging Your Question
Assistance With Code Completion
Completed MONIFORMS
Variables Used
Unit "setup"
HumRRO Drive Units Used

SUMMARY

Step	Reference in Main Index
1. Select MONIFORM and know characteristics	MONIFORM Characteristics Sample Questions
2. Leave personal note to: re schulz–course: hum	
3. Copy Unit "setup" and MONIFORM into your lesson from hum8	
4. Revise Unit "setup"	Unit "setup" Variables Used
5. Revise MONIFORM	Completed MONIFORMS Assistance With Code Completion
6. Try question in student mode	Debugging Your Question Assistance With Code Completion Completed MONIFORMS Variables Used Unit "setup" HumRRO Drive Units Used

Unit "Setup"

G

UNIT SETUP

It is important that you understand the characteristics of Unit "setup" inasmuch as it is the heart of the MONIFORM concept. It is the unit that permits you to use HumRRO code for execution of your MONIFORM questions.

Unit Setup

```
unit        setup
define      form2
            offset = 5Ø          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         dried                $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

Unit "setup" is located in lesson hum8. It is the unit that allows you to use HumRRO code for question execution without the need for you to copy the code into your lesson space.

Unit Setup

```
unit        setup
define      form2
            offset = 50          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

Unit "setup" should be copied into your lesson ONLY ONE TIME.
It must come before use of any MONIFORM.

Unit Setup

```
unit        setup
define      form2
            offset = 5Ø          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

Look at the entry "offset" in Unit "setup". Offset is now set at 5Ø. This means that the sequence of student variables used in the MONIFORM for question execution will begin with v5Ø. If you want to begin with some other student variable change "5Ø" to the number you wish to begin with. Keep in mind, however, that if the MONIFORM you wish to use requires 68 student variables, offset cannot be set at greater than 82. (This would mean you were using variables v82-v15Ø.) See page H-1 to find out the number of variables used with each MONIFORM.

Unit Setup

```
unit        setup
define      form2
            offset = 50          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

You will also notice in Unit "setup" several -use- commands. Each of these indicates the HumRRO block in hum9 needed for execution of specific MONIFORMS (i.e., shown after the double dollar sign ($$)). To decrease the amount of ecs you use place a star before any -use- command in which that block of HumRRO coding is not needed for the questions used in your lessons. (Do not delete inasmuch as you may use these -use- commands for later MONIFORMS.)

Unit Setup

```
unit        setup
define      form2
            offset = 5Ø          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

If you have a -use- command someplace in your lesson other than in Unit "setup", read the remainder of this section.

If you do not have a -use- command elsewhere in your lesson return to the Main Index.

Unit Setup

```
unit        setup
define      form2
            offset = 50          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

DO NOT USE this procedure unless you have previously used a -use- command elsewhere in your lesson.

Unit Setup

```
unit        setup
define      form2
            offset = 50          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

You may copy HumRRO "drive units" directly into your lesson from lesson hum9 (author mode). Pages I-3 and I-4 indicate the specific drive units used with each MONIFORM. All of the code necessary for question execution will thus reside in your lesson space rather than in HumRRO lesson space. This procedure, however, reduces somewhat the value of MONIFORMS.

Unit Setup

```
unit        setup
define      form2
            offset=5Ø          $$ you may specify another number
jump        form               $$ r form with name of your 1st unit
use         hum9,definea       $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea             $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb             $$ used with moniforms1,2,3,4,5,6,7
use         drivec             $$ used only with moniform8
use         drived             $$ used only with moniform8
use         drivee             $$ used only with moniforms8 and 9
use         drivef             $$ used only with moniform9
```

If you copy the HumRRO "drive units" into your lesson, change Unit "setup" by deleting all lines beginning with the -use- command.

Unit Setup

```
unit        setup
define      form2
            offset = 5Ø          $$ you may specify another number
jump        form                 $$ r form with name of your 1st unit
use         hum9,definea         $$ used with all moniforms
*NOTICE:  Place a star (*) in front of any -use- statement,
*below, not necessary for execution of the MONIFORM(S)
*you are using in your lesson.  This will save you ecs.
*(Do not delete since you may use them in later MONIFORMS.)
use         drivea               $$ used with moniforms1,2,3,4,5,6,7,9
use         driveb               $$ used with moniforms1,2,3,4,5,6,7
use         drivec               $$ used only with moniform8
use         drived               $$ used only with moniform8
use         drivee               $$ used only with moniforms8 and 9
use         drivef               $$ used only with moniform9
```

Turn to page I-1 for a listing of HumRRO "drive units" used with each MONIFORM.

Student Variables Used With MONIFORMS

H

STUDENT VARIABLES USED WITH MONIFORMS

MONIFORM	# VARIABLES USED	NOW SET AT*
1	68	v50-v117
2	68	v50-v117
3	72	v50-v121
4	76	v50-v125
5	68	v50-v117
6	72	v50-v121
7	88	v50-v137
8	85	v50-v134
9	13	v50-v62

*All HumRRO MONIFORMS are now set to use student variables beginning with v50 (e.g., v50 thru v(# of variables +49)). You may change the variable you start with by changing the value of "offset" in your copy of Unit "setup".

For example, if you wanted to use variables v1-v67 in MONIFORM1 rather than v50-v117 you would have in Unit "setup": offset = 1.

HumRRO Drive Units Used

HumRRO DRIVE UNITS USED FOR MONIFORM EXECUTION

Information about HumRRO "drive units" used for MONIFORM execution is needed ONLY by individuals who have used a -use- command in their lesson someplace other than in Unit "setup".

If you are already using a -use- command in your lesson (PLATO allows you to use only one additional lesson) it will be necessary for you to copy the specific HumRRO "drive units" necessary for MONIFORM execution into your lesson.

HumRRO "drive units" are located in lesson hum9. Contact Russel E. Schulz for assistance in copying the "drive units" into your lesson.

HumRRO lesson hum9 block location is shown in parentheses.

MONIFORM1

definea	(definea)
drive1	(drivec)
drive2	(drivec)
drive3	(drivec)
drive4	(drivec)
drive5	(drivec)
drive6	(drivec)
drive10	(drived)
drive11	(drived)
drive12	(drived)

MONIFORM2

definea	(definea)
drive1a	(drivec)
drive3	(drivec)
drive4	(drivec)
drive5	(drivec)
drive6	(drivec)
drive10	(drived)
drive11	(drived)
drive12	(drived)

MONIFORM3

definea	(definea)
drive1	(drivec)
drive2	(drivec)
drive3	(drivec)
drive5	(drivec)
drive6	(drivec)
drive7	(drived)
drive8	(drived)
drive9	(drived)
drive11	(drived)
drive13	(drived)
drive13a	(drived)

MONIFORM4

definea	(definea)
drive1a	(drivec)
drive3	(drivec)
drive5	(drivec)
drive6	(drivec)
drive7	(drived)
drive8	(drived)
drive9	(drived)
drive11	(drived)
drive13	(drived)
drive13a	(drived

HumRRO lesson hum9 block location is shown in parentheses.

MONIFORM5

definea	(definea)
drive3	(drivec)
drive5	(drivec)
drive6	(drivec)
drive14	(drived)
drive15	(drived)
drive16	(drived)

MONIFORM6

definea	(definea)
drive3	(drivec)
drive5	(drivec)
drive6	(drivec)
drive14	(drived)
drive16	(drived)
drive17	(drived)

MONIFORM7

definea	(definea)
drive3	(drivec)
drive5	(drivec)
drive6	(drivec)
drive14	(drived)
drive16	(drived)
drive18	(drived)

MONIFORM8

definea	(definea)
drive19	(drivee)
drive20	(drivee)
drive21	(drivee)
drive22	(drivee)
drive23	(drivee)
drive24	(drivef)
drive25	(drivef)
drive26	(drivef)
drive27	(drivef)
drive28	(drivef)
drive29	(driveg)

MONIFORM9

definea	(definea)
drive5	(drivec)
drive30	(driveg)
drive31	(driveg)
drive32	(driveg)
drive33	(driveg)
drive34	(driveg)
drive35	(driveg)
drive36	(driveg)
drive37	(driveg)

Assistance in MONIFORM Completion

J

ASSISTANCE IN MONIFORM COMPLETION

In some instances the instructions that follow the $$ in MONIFORMS are not sufficiently clear for all individuals.

This section provides a list of MONIFORM coding lines. The user may reference this list to obtain additional assistance in completing his MONIFORM.

Generally, it is not necessary to examine this section unless you are having difficulty in completing a specific MONIFORM.

Page		
J-3	(alt1,wrong)	
J-4	answ ⇦	
J-5	assist ⇦	
J-6	calc	arrow1 ⇦
J-7	calc	lines ⇦
J-8	calc	nodist ⇦
J-9	calc	ntaf ⇦
J-10	calc	pos ⇦
J-11	calc	posA ⇦
J-12	(catext,zzzz)	
J-13	concept alt1	(thru alt5)
J-14	jump	rightT=noalt,nextu,review,
J-15	long1 ⇦	
J-16	noalt ⇦	
J-17	notries ⇦	
J-18	next	nextu
J-19	nextnow	remed > Ø,otheru,x,
J-20	nextnow	remed = Ø,x, otheru,
J-21	pack	temp,alt1, (thru temp,alt6)
J-22	pack	temp,caf
J-23	pack	temp,catext,
J-24	pack	temp,dist1, (thru temp,dist5)
J-25	pack	temp,match1, (thru temp,match9,)
J-26	pack	temp,waf, (thru temp,waf4)
J-27	pack	temp2,caf1,
J-28	pack	temp2,n(offset + 1),
J-29	pos ⇦	(as used in MONIFORM8 only)
J-30	posB ⇦	
J-31	space ⇦	
J-32	specs	$$
J-33	vocabs	form5 (6 or 7)
J-34	< zz,zz,zz >	

```
(alt1,wrong1)     $$ r wrong1 with incorrect answer 1
(alt2,wrong2)     $$ r wrong2 with incorrect answer 2
(alt3,wrong3)     $$ r wrong3 with incorrect answer 3
(alt4,wrong4)     $$ r wrong4 with incorrect answer 4
(alt5,wrong5)     $$ r wrong5 with incorrect answer 5
```

"r" means replace.

You may specify as many as 5 specific wrong answers for which you will give specific feedbacks. In the code above you replace wrong1, wrong2, etc. with the specific "incorrect" answers. They can consist of single words, phrases, or synonymous words or phrases.

Since this MONIFORM uses the -vocabs- command, the way the wrong answer is coded is different from that of the -wrong- command. NOTE the following examples carefully.

EXAMPLES

(alt1,wronganswer)

Wrong answer: wronganswer

(alt2,wrong*answer)

Wrong answer: wrong answer

(alt3,Alexandria*Virginia,Alexandria*Va)

Wrong answer: Alexandria, Virginia or Alexandria, Va.

(alt4,4*th*of*July,Fourth*of*July)

Wrong answer: 4th of July or Fourth of July

```
answ⇦        $$ add the # of the alternative which
             $$ is the correct answer
```

You were instructed earlier in the MONIFORM to provide 2-6 answer alternatives, one of which was to be the correct answer. Since you specify the order in which the answer alternatives are presented to the student, PLATO must be told which answer alternative is the correct answer. You add it immediately after the arrow.

Your entry must be a number between 1 and 6.

EXAMPLE

```
answ⇦3       (The 3rd answer alternative that you wrote
             is the correct answer.)
```

assist ⇦ $$ add: instr—for instructor assistance OR
$$ add: answer-answer given; OR add: none

This option permits you to designate what type of assistance the student will receive if he is still incorrect after the number of attempts that you have specified (for notries) is reached.

EXAMPLE

(1) assist ⇦ instr
After the n^{th} try student receives message "Please Call Your Instructor". Keyboard is locked until instructor gives assistance and types: unlock.

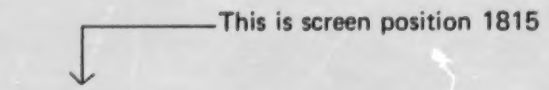
(2) assist ⇦ answer
After the n^{th} incorrect try the correct answer is given to the student and he is branched to another author specified unit. (This unit may be used to provide remediation instruction, or it could be the same unit he would go to if he answered the question correctly.)

(3) assist ⇦ none
No assistance is given the student. He is just branched to another author specified unit.

calc arrow1⇦ $$ add position for first arrow

In this MONIFORM the arrow is used for two purposes: (1) as a place for the student's answer, and (2) to mark the matching item that he is currently working on. You must therefore determine the screen position of the first matching item and then subtract 5 from this value. This is the value you add immediately after the arrow. NOTE: The screen position you add must be greater than 5 (e.g., 18Ø6) to allow for presentation of correct answers and "no" feedback.

EXAMPLE



›	1.	Matching item 1	a.	answer 2
	2.	Matching item 2	b.	answer 4
	3.	Matching item 3	c.	answer 1
	4.	Matching item 4	d.	answer 3

In this example -arrow1- is therefore set at: 181Ø (1815 - 5 = 181Ø) The arrow will then be presented at the ›, as shown. (e.g., calc arrow1⇦ 181Ø)

calc lines ⇦ $$ add # question lines used

In MONIFORMS that use this line of code you have been instructed to write 1-4 lines of question text. (In the case of Multiple Choice questions this does not include answer alternatives.) Inasmuch as you may not require the full 4 lines for asking your question, PLATO needs to know how many lines you actually required. You add this number immediately after the ⇦ .

EXAMPLE

calc lines⇦3 (indicating you used 3 lines of question text)

calc	nodist ⇦	$$ add # distractors used
		OR
calc	nodist ⇦	$$ add # alternatives used

Earlier in the MONIFORM you were instructed to write 1-5 distractors (MONIFORMS1 and 3) or 1-6 answer alternatives (MONIFORMS2 and 4). PLATO needs to know exactly how many you actually wrote. Add this number immediately after the ⇦ .

EXAMPLE

calc	nodist⇦ 4	(This means you wrote 4 distractors/ alternatives.)

```
calc    ntaf ⇦      $$ add # of try again feedbacks used
              OR
calc    ntaf ⇦      $$ add # of general feedbacks used
```

MONIFORMS1,2, and 5

Earlier in the MONIFORM you were asked to write text for 1-4 try again feedbacks (general incorrect answer messages). PLATO needs to know the actual number that you wrote. Add the number written immediately after the ⇦ .

MONIFORM7

In this MONIFORM you were asked to write text for general (not response specific) feedbacks. Again, PLATO needs to know the actual number written. Add the number written immediately after the ⇦ .

EXAMPLE

```
calc    ntaf ⇦ 2    (meaning 2 try again feedbacks, or
                     2 general feedbacks were written)
```

calc pos ⇦ $$ add screen pos. to begin question

Within certain restrictions you may have your question appear any place that you wish on the screen. Add the screen position that you wish to have as the starting point for your question immediately after the ⇦ .

NOTE: Be certain that you do not specify a position so low on the screen that there will not be enough room for your question and any feedbacks that the student might receive.

Inasmuch as the feedbacks that you provide may be 40 characters in length (and limited to one line) be certain that you do not begin your question too far to the right of the screen.

EXAMPLE

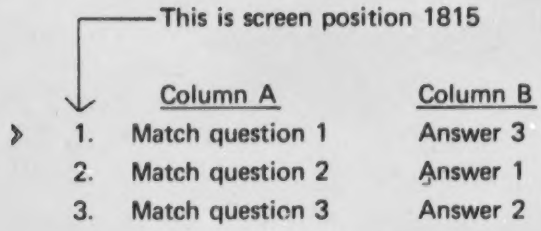
calc pos⇦1010 (Your question would begin at line 10, character position 10.)

```
calc    posA⇦       $$ add screen position of first
                    $$ match question
```

In this MONIFORM two columns are required which we arbitrarily designate as Column A and Column B below (you need not label them). Column A is a list of the match questions, and Column B is a list of answer alternatives.

The arrow indicating which match question the student is working on appears a few spaces to the right of Column A entries. PLATO needs to know where your Column A entries begin. Therefore, enter the screen position immediately after the → for the beginning screen position of match question 1.

EXAMPLE




```
calc    posA⇦ 1815
```

(In this example the first arrow would appear as shown by the ›.)

(catext,zzzz) $$ r zz's with correct answer

The correct answer can be a single word, a phrase, or synonymous words or phrases. Replace the "zz's" with your correct answer. Separate synonymous words or phrases with commas (,). Separate words in a phrase with stars (*).

Since this MONIFORM uses the -vocabs- command, the way the correct answer is coded is different from that of the -answer- command. NOTE the following examples carefully.

EXAMPLES

(catext,rightanswer)
Answer: rightanswer

(catext,right*answer)
Answer: right answer

(catext,Alexandria*Virginia,Alexandria*Va)
Answer: Alexandria, Virginia or Alexandria, Va.

(catext,4*th*of*July,Fourth*of*July
Answer: 4th of July or Fourth of July

```
concept alt1          $$ copy as is (delete if not used)
concept alt2          $$ copy as is (delete if not used)
concept alt3          $$ copy as is (delete if not used)
concept alt4          $$ copy as is (delete if not used)
concept alt5          $$ copy as is (delete if not used)
```

Earlier in the MONIFORM you specified 1 to 5 specific wrong answers: (alt1,wrong1); (alt2,wrong2); etc.

If you specified fewer than 5, it is important that you delete any of the lines of coding above that do not correspond to a specific wrong answer.

```
jump      rightT=noalt,nextu,review,     $$ r nextu with next unit
                                         $$ r review with unit S
                                         $$ goes if answ given him
```

"r" means replace.

Replace "nextu" with the name of the unit that you wish the student to be branched to if he gets all items on the match question correct.

Replace "review" with the name of the unit that you wish the student to be branched to if he is still not entirely correct after the number of attempts permitted is reached. He will only go to this unit if you have specified that the correct answers are to be given him. (i.e., assist⇐ answer). NOTE: This unit can be the same as "nextu" if you wish, or it could be a review type unit.

EXAMPLES

```
jump      rightT=noalt,coransw,wr-answ,

jump      rightT=noalt,anyans,anyans,
```

long1⍊ $$ add 1 for immed. judging (long1); add Ø
$$ if S must 1st press next to judge answ.

You have the option of having judging of the student's answer begin immediately after he has entered a single character, or having judging begin only after he enters an answer and presses NEXT.

EXAMPLES

long1⍊1 (Judging begins as soon as single character is entered.)

long1⍊Ø (Judging begins only after answer is entered and student presses NEXT.)

noalt⇦ $$ add # match questions used

In MONIFORM8 you are permitted to write as many as 9 match questions (items), while in MONIFORM9 you may write as many as 1Ø. PLATO needs to know the actual number you wrote. Add this number immediately after the⇦.

EXAMPLE

noalt⇦7 (indicates you wrote 7 match questions/items)

notries ⇦ $$ add # attempts student permitted

The number you add after the ⇦ indicates the number of attempts at the question you wish the student to have.

EXAMPLE

notries ⇦ 3 (student permitted 3 attempts.) NOTE: If you are using MONIFORMS in which students are given general feedbacks, in this example you would need to write only 2 feedbacks. The student would not see additional ones because of the limitation on attempts permitted.

next	nextu	$$ r nextu with unit name S goes to $$ if he gives correct answer

"r" means replace.

Replace "nextu" with the name of the unit you wish the student to be branched to if he answers the question correctly.

EXAMPLE

next coransw (coransw is a unit name)

nextnow remed > Ø,otheru,x, $$ r "otheru" with unit S
$$ goes if answ given him

"r" means replace.

You have earlier specified the number of attempts that you wish the student to have at the question. If she is still incorrect after she has reached this limit you may have specified that she be given the correct answer and then branched to another unit.

Therefore, replace "otheru" with the unit you wish her branched to. (It can, of course, be the same unit that you branch her to if she gets the question correct.)

NOTE: If you have elected to have the instructor called (i.e., assist ≠ instr) rather than giving the student the correct answer, you may replace "otheru" with "x" or delete the entire line of code.

EXAMPLE

nextnow remed > Ø,helpu,x,

```
nextnow remed = Ø,x,otheru,     $$ r "otheru" with unit S
                                $$ goes if answ given him
```

"r" means replace.

You have earlier specified the number of attempts that you wish the student to have at the question. If he is still incorrect after he has reached this limit you may have specified that he be given the correct answer and then branched to another unit.

Therefore, replace "otheru" with the unit you wish him branched to. (It can, of course, be the same unit that you branch him to if he gets the question correct.)

NOTE: If you have elected to have the instructor called (i.e., assist ⇦ instr) rather than giving him the correct answer, you may replace "otheru" with "x" or delete the entire line of code.

EXAMPLE

```
nextnow     remed = Ø,x,helpu,
```

```
pack    temp,alt1,    $$ add answer alternative 1
pack    temp,alt2,    $$ add answer alternative 2
pack    temp,alt3,    $$ add answer alternative 3
pack    temp,alt4,    $$ add answer alternative 4
pack    temp,alt5,    $$ add answer alternative 5
pack    temp,alt6,    $$ add answer alternative 6
```

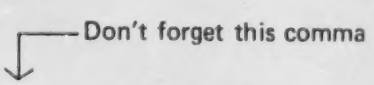
You may have as many as 6 answer alternatives in your question. They will appear on the screen in the order that you have written them (i.e., alternative 1 will be first, etc).

One of the answer alternatives must be the correct answer.

Answer alternatives are limited to 40 characters (shifted characters count as 2).

Leave blank (or delete) any lines of code not needed for answer alternatives.

EXAMPLE




```
pack    temp,alt1,alternative 1
pack    temp,alt2,alternative 2
pack    temp,alt3,alternative 3    (correct answer)
pack    temp,alt4,alternative 4
pack    temp,alt5,                 (not used)
pack    temp,alt6,                 (not used)
```

pack temp,caf, $$ add correct answer feedback

You may give the student a congratulatory message (feedback) if he gets the question entirely correct.

This message is limited to 40 characters (shifted characters count as 2). It is written immediately after the final comma. (Don't forget the comma.)

EXAMPLE

```
pack        temp,caf,Congratulations!  You are correct.
```

```
pack        temp,catext,      $$ add text for correct answer alt
                        OR
pack        temp,catext,      $$ add correct answer (only one)
```

The material that you add after the comma in the code above is used in two ways, depending upon the MONIFORM you are completing. It is limited to 40 characters (shifted characters count as 2).

MONIFORMS2, 4, 5, 6, 7

Used only as feedback in those cases where the author has specified that the student be given the correct answer after reaching attempt limit specified.

MONIFORMS1 and 3

In MONIFORMS1 and 3 answer alternatives (distractors and the correct answer) are packed into variables so that they may be presented later to the student in random order. In this case, you are adding the correct answer alternative after the final comma.

Also used as feedback to give the student the correct answer.

EXAMPLE

```
pack        temp,catext, (correct answer)
```

```
pack    temp,dist1,    $$ add text for distractor 1
pack    temp,dist2,    $$ add text for distractor 2
pack    temp,dist3,    $$ add text for distractor 3
pack    temp,dist4,    $$ add text for distractor 4
pack    temp,dist5,    $$ add text for distractor 5
```

You are permitted 1-5 distractors (wrong answer alternatives) in your question. Add them after the final comma in your code. They are limited to 40 characters (shifted characters count as 2). Don't be concerned with their order inasmuch as they will be presented to the student in random order.

If you do not require all 5 distractors in your question leave any unneeded ones blank after the final comma. (Or you may delete them.)

EXAMPLE

```
pack    temp,dist1,wrong answer alternative a
pack    temp,dist2,wrong answer alternative b
pack    temp,dist3,wrong answer alternative c
pack    temp,dist4,      (not needed)
pack    temp,dist5,      (not needed)
```

```
pack    temp,match1,    $$ add match answer item 1
pack    temp,match2,    $$ add match answer item 2
pack    temp,match3,    $$ add match answer item 3
pack    temp,match4,    $$ add match answer item 4
pack    temp,match5,    $$ add match answer item 5
pack    temp,match6,    $$ add match answer item 6
pack    temp,match7,    $$ add match answer item 7
pack    temp,match8,    $$ add match answer item 8
pack    temp,match9,    $$ add match answer item 9
```

You may have as many as 9 matching items (answer alternatives). Add the text for these items after the final comma. Each item is limited to 40 characters (shifted characters count as 2). Don't be concerned about order since they are presented in random order.

If you have fewer than 9 matching items leave blank after final comma (or delete).

EXAMPLE

```
pack    temp,match1,answer 1
pack    temp,match2,answer 2
pack    temp,match3,answer 3
pack    temp,match4,answer 4
pack    temp,match5,answer 5
pack    temp,match6,            (not used)
pack    temp,match7,            (not used)
pack    temp,match8,            (not used)
pack    temp,match9,            (not used)
```

```
pack    temp,waf,     $$ add fdback -"general" wrong answer
                OR
pack    temp,waf,     $$ add general feedback 1
pack    temp,waf2,    $$ add general feedback 2
pack    temp,waf3,    $$ add general feedback 3
pack    temp,waf4,    $$ add general feedback 4
```

MONIFORM6—In this MONIFORM you may give only 1 general feedback for unanticipated wrong answers. This feedback is limited to 40 characters (shifted characters count as 2).

MONIFORM7—In this MONIFORM you may give a maximum of 4 general feedbacks for unanticipated wrong answers. The student will receive feedback 1 the first time he gives an unanticipated wrong answer, feedback 2 for the second unanticipated wrong answer, etc. Again, feedbacks are limited to 40 characters where shifted characters count as 2. Leave blank (or delete) any lines not needed.

EXAMPLE

```
pack    temp,waf,1st unanticipated answer feedback
pack    temp,waf2,2nd unanticipated answer feedback
pack    temp,waf3,3rd unanticipated answer feedback
pack    temp,waf4,              (not needed)
```

pack temp2,caf1, $$ add correct answer feedback

You may give the student a congratulatory message (feedback) if he gets the question entirely correct.

This message is limited to 40 characters (shifted characters count as 2). It is written immediately after the final comma. (Don't forget the comma.)

EXAMPLE

pack temp,caf1,Great! You got it correct.

pack temp2,n(offset+1), $$ add correct answ string

You have written a maximum of 10 matching items (questions) and have presumably scrambled the answers. This line of coding tells PLATO what the order of the correct answers is (i.e., matching item 1 is answer c; item 2 is answer a; etc.). See the examples below for the method of signifying the correct answer string.

EXAMPLES

Make the matches below:

1.	Water	a.	Metal
2.	Iron	b.	Fluid
3.	Table salt	c.	Vegetable
4.	Pumpkin	d.	Mineral

Correct method of completing code

pack temp2,n(offset + 1),badc

Incorrect methods of completing code

pack temp2,n(offset+1),b,a,d,c (should not have commas between letters)

pack temp2,n(offset+1),b a d c (should not have spaces between letters)

```
pos ⇦          $$ add line # for feedbacks to begin
               $$ (no greater than 28)
```

In this MONIFORM, "pos" is used to designate the line on the screen (e.g., line 26) where you want any feedbacks that the student receives written. Do not specify a line greater than 28 inasmuch as lines below 28 are reserved for instructions.

EXAMPLE

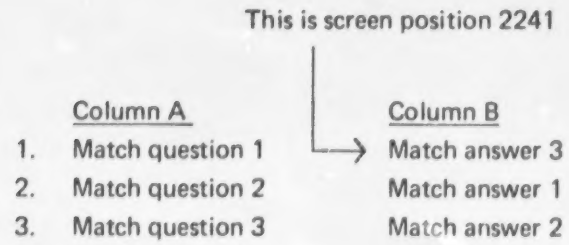
```
pos ⇦ 26       (All feedbacks in this example would be
               presented on line 26 of the screen.)
```

```
calc      posB⇦          $$ add screen position for first
                         $$ match answer
```

In this MONIFORM two columns are required which we arbitrarily designate as Column A and Column B below. (You need not label them.) Column A is a list of the match questions, and Column B is a list of answer alternatives.

In this line of code you are specifying the screen position where you want the Column B items (match answers) to begin. Make certain there is enough room for them to fit on the screen.

EXAMPLE



calc posB ⇦ 2241 (in this example)

space ⇦ $$ add # lines between match items

You have the option of having single, double, or triple spacing between match items. So that PLATO will know how many lines to move the arrow after each time, you must indicate the number of lines between the items.

EXAMPLES

(1) Match item 1
Match item 2 space ⇦ 1
Match item 3
Match item 4

(2) Match item 1

Match item 2

space ⇦ 2

Match item 3

Match item 4

specs	$$	$$ r first $$ with desired specs

"r" means replace.

You have the option of having any "specs" that you wish used for judging the student's answer. You replace the first set of $$ with the "specs" you want (separated by commas).

NOTE: These MONIFORMS use the -concept- command for execution. Not all "specs" work with the -concept- command. Only the "specs" listed will work:

- best
- bumpshift
- nomark
- nookno
- noorder
- okcap
- okspell
- okxvocab

} See Lesson AIDS for explanation.

EXAMPLE

specs nomark,nookno,noorder,okspell,

```
vocabs    form5        $$ r form5 with your unit name
vocabs    form6        $$ r form6 with your unit name
vocabs    form7        $$ r form7 with your unit name
```

"r" means replace.

In all of the above coding lines you must replace form (5,6, or 7) with the unit name you assigned this constructed response question.

EXAMPLE

```
unit      myname
.
.
.
.
.
.
vocabs    myname
```

< zz,zz,zz > $$ r zz's with optional words

"r" means replace.

You may designate optional words that will be disregarded in judging the student's answer. Replace the "zz,zz,zz" with these optional words.

NOTE: When the -vocabs- command is used for judging the student's answer, optional words will not be disregarded if they come in the middle of words in an answer phrase (e.g., Alexandria is the city in Virginia). If "is,the,city,in" were designated as optional words, PLATO would not disregard them if the correct answer was "Alexandria Virginia). Therefore, optional words to be disregarded must come before or after the correct answer.

EXAMPLE:

< it,is,the,city >

Debugging Your Question

K

DEBUGGING YOUR QUESTION

You can always receive assistance in debugging your question by contacting Russel E. Schulz in the talk option or by leaving a personal note. Use the following:

Code name: re schulz
Course: hum

You may also find the comments on the following pages helpful in debugging your question.

You may find it helpful to look at an example of a question prepared with the MONIFORM you have selected. If so, turn to page B-1.

You may also find it helpful to examine an accurately completed MONIFORM for the sample question. If so, turn to page C-1.

Or, turn to the next page for a troubleshooting list that may solve your problem.

1. Are you completely familiar with the characteristics of the MONIFORM you are using? You may be expecting something from it that it was not designed to give.

2. Check to make certain that Unit "setup" has been copied into your lesson only once and that the following are correct:

   a. PLATO is executing Unit "setup" before it reaches your question.

   b. All of the necessary -use- commands needed for your question to execute have been included in "setup".

   c. If you have changed the value of "offset", check to be certain that you have not exceeded the permissible range of student variables (i.e., if your MONIFORM requires 75 variables, "offset" must be no greater than "76"). Otherwise you would be trying to use variables greater than 150.

3. If feedbacks or answer alternatives are not appearing as they should, check the following:

   a. If a feedback doesn't appear at all:

      (1) Check to be certain that you have not omitted the final comma in the -pack- statements (i.e., the one just before your feedback).

      (2) If feedbacks are "general" you will not receive them unless you have specified enough attempts at the question for them to be used (e.g., if you permit only 2 tries at the question, only one (the first) general feedback will ever be used).

   b. If feedback is "chopped" off in the middle you have probably exceeded the 40 character limit. (Shifted characters count as 2.)

   c. If feedbacks are appearing at "funny" places on the screen you have probably set the value of the initial screen position (where your question starts) too low on the screen, or too far to the right.

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